



SAFETY DATA SHEET

1. Identification

Product identifier: PENI-LUBE PENETRATING OIL

Other means of identification

SDS number: RE1000007223

Recommended restrictions

Product use: Lubricant

Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: CLAIRE MANUFACTURING COMPANY
Address: 1000 Integram Dr
Pacific, MO 63069
Telephone: 1-630-543-7600
Fax:

Emergency telephone number: 1-866-836-8855

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable aerosol Category 1

Health Hazards

Aspiration Hazard Category 1

Label Elements

Hazard Symbol:



Signal Word: Danger

Hazard Statement: Extremely flammable aerosol.
May be fatal if swallowed and enters airways.

Precautionary Statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.



Response: IF SWALLOWED: Immediately call a POISON CENTER/doctor Do NOT induce vomiting.

Storage: Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store locked up.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC): None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Distillates (petroleum), hydrotreated light	64742-47-8	50 - <100%
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	20 - <50%
Propane	74-98-6	5 - <10%
Ethanol, 2-(2-butoxyethoxy)-	112-34-5	1 - <5%
Proprietary		1 - <5%
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	0.1 - <1%
Distillates, Petroleum, Hydrotreated Light Naphthenic	64742-53-6	0.1 - <1%
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	0.1 - <1%
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	0.1 - <1%
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	0.1 - <1%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Ingestion: Call a physician or poison control center immediately. Rinse mouth. Never give liquid to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Inhalation: Move to fresh air.

Skin Contact: Wash skin thoroughly with soap and water. Get medical attention if symptoms occur.

Eye contact: Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.



Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: No data available.

5. Fire-fighting measures

General Fire Hazards: Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: Vapors may travel considerable distance to a source of ignition and flash back.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind.

Methods and material for containment and cleaning up: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

Notification Procedures: Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.

Environmental Precautions: Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.



Conditions for safe storage, including any incompatibilities:

Store locked up. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Aerosol Level 3

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Distillates (petroleum), hydrotreated light	REL	100 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Distillates (petroleum), hydrotreated light - Non-aerosol. - as total hydrocarbon vapor	TWA	200 mg/m3	US. ACGIH Threshold Limit Values (2008)
	TWA	200 mg/m3	US. ACGIH Threshold Limit Values (2008)
Distillates (petroleum), hydrotreated heavy naphthenic	TWA	400 ppm 1,600 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	PEL	500 ppm 2,000 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Distillates (petroleum), hydrotreated heavy naphthenic - Mist.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	STEL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Distillates (petroleum), hydrotreated heavy naphthenic	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	Ceil_Time	1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Distillates (petroleum), hydrotreated heavy naphthenic - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (03 2014)
	REL	350 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Propane	REL	1,000 ppm 1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	1,000 ppm 1,800 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	1,000 ppm 1,800 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Ethanol, 2-(2-butoxyethoxy)- - Inhalable fraction and vapor.	TWA	10 ppm	US. ACGIH Threshold Limit Values (03 2013)
Distillates (petroleum), hydrotreated heavy paraffinic - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (03 2014)
	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Distillates (petroleum), hydrotreated heavy paraffinic - Mist.	STEL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2016)
	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (01 2017)
	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2016)
Distillates, Petroleum, Hydrotreated Light Naphthenic - Mist.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Distillates, Petroleum, Hydrotreated Light Naphthenic	TWA	400 ppm 1,600 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)



	PEL	500 ppm 2,000 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Distillates, Petroleum, Hydrotreated Light Naphthenic - Mist.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	STEL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Distillates, Petroleum, Hydrotreated Light Naphthenic	Ceil_Time	1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	REL	350 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Distillates, Petroleum, Hydrotreated Light Naphthenic - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (03 2014)
Distillates (petroleum), solvent-dewaxed heavy paraffinic	PEL	500 ppm 2,000 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	400 ppm 1,600 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
Distillates (petroleum), solvent-dewaxed heavy paraffinic - Mist.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	STEL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Distillates (petroleum), solvent-dewaxed heavy paraffinic - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (03 2014)
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Ceil_Time	1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	REL	350 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
Distillates (petroleum), hydrotreated light paraffinic - Mist.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	STEL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
Distillates (petroleum), hydrotreated light paraffinic - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (03 2014)
Distillates (petroleum), solvent-dewaxed light paraffinic - Mist.	STEL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
Distillates (petroleum), solvent-dewaxed light paraffinic - Inhalable fraction.	TWA	5 mg/m3	US. ACGIH Threshold Limit Values (01 2010)

Appropriate Engineering Controls

No data available.

Individual protection measures, such as personal protective equipment



General information:	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory and eye protection may be needed in special circumstances, such as poorly ventilated spaces, heating, evaporation of liquids from large surfaces, spraying of mists, mechanical generation of dusts, drying of solids, etc.
Eye/face protection:	Wear safety glasses with side shields (or goggles).
Skin Protection	
Hand Protection:	No data available.
Other:	Wear suitable protective clothing.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.
Hygiene measures:	Observe good industrial hygiene practices. When using do not smoke.

9. Physical and chemical properties

Appearance

Physical state:	liquid
Form:	Spray Aerosol
Color:	No data available.
Odor:	No data available.
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash Point:	Estimated -104.4 °C
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	Estimated 9.5 %(V)
Flammability limit - lower (%):	Estimated 2.2 %(V)
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Density:	No data available.
Relative density:	No data available.
Solubility(ies)	
Solubility in water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.



10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	No data available.
Hazardous Decomposition Products:	No data available.

11. Toxicological information

Information on likely routes of exposure

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: Not classified for acute toxicity based on available data.

Specified substance(s):

Distillates (petroleum), hydrotreated light	LD 50 (Rat): > 5,000 mg/kg
Distillates (petroleum), hydrotreated heavy naphthenic	LD 50 (Rat): > 5,000 mg/kg
Ethanol, 2-(2-butoxyethoxy)-	LD 50 (Mouse): 2,410 mg/kg
Proprietary	LD 50: > 2,000 mg/kg



Distillates (petroleum), hydrotreated heavy paraffinic	LD 50 (Rat): > 5,000 mg/kg
Distillates, Petroleum, Hydrotreated Light Naphthenic	LD 50 (Rat): > 5,000 mg/kg
Distillates (petroleum), solvent-dewaxed heavy paraffinic	LD 50 (Rat): > 5,000 mg/kg
Distillates (petroleum), hydrotreated light paraffinic	LD 50 (Rat): > 5,000 mg/kg
Distillates (petroleum), solvent-dewaxed light paraffinic	LD 50 (Rat): > 5,000 mg/kg

Dermal

Product: Not classified for acute toxicity based on available data.

Specified substance(s):

Distillates (petroleum), hydrotreated light	LD 50 (Rabbit): > 2,000 mg/kg
Distillates (petroleum), hydrotreated heavy naphthenic	LD 50 (Rabbit): > 2,000 mg/kg
Ethanol, 2-(2- butoxyethoxy)-	LD 50 (Rabbit): 2,764 mg/kg
Proprietary	LD 50: > 2,000 mg/kg
Distillates (petroleum), hydrotreated heavy paraffinic	LD 50 (Rabbit): > 5,000 mg/kg
Distillates, Petroleum, Hydrotreated Light Naphthenic	LD 50 (Rabbit): > 5,000 mg/kg
Distillates (petroleum), solvent-dewaxed heavy paraffinic	LD 50 (Rabbit): > 2,000 mg/kg
Distillates (petroleum), hydrotreated light paraffinic	LD 50 (Rabbit): > 5,000 mg/kg
Distillates (petroleum), solvent-dewaxed light paraffinic	LD 50 (Rabbit): > 5,000 mg/kg



Inhalation

Product: Not classified for acute toxicity based on available data.

Specified substance(s):

Distillates (petroleum),
hydrotreated light LC 50: > 5 mg/l
LC 50: > 20 mg/l

Distillates (petroleum),
hydrotreated heavy
naphthenic LC 50 (Rat): > 5.53 mg/l
LC 50: > 100 mg/l
LC 50: > 100 mg/l

Propane LC 50: > 100 mg/l
LC 50: > 100 mg/l

Ethanol, 2-(2-
butoxyethoxy)- LC 50 (Various): > 20 mg/l

Proprietary LC 50: > 100 mg/l
LC 50: > 100 mg/l

Distillates (petroleum),
hydrotreated heavy
paraffinic LC 50 (Rat): 10.5 mg/l
LC 50: > 100 mg/l
LC 50: > 100 mg/l

Distillates, Petroleum,
Hydrotreated Light
Naphthenic LC 50 (Rat): > 5.53 mg/l

Distillates (petroleum),
solvent-dewaxed heavy
paraffinic LC 50 (Rat): 10.5 mg/l

Distillates (petroleum),
hydrotreated light
paraffinic LC 50 (Rat): > 5.53 mg/l
LC 50 (Rat): 10.5 mg/l

Distillates (petroleum),
solvent-dewaxed light
paraffinic LC 50 (Rat): 10.5 mg/l

Repeated dose toxicity

Product: No data available.

Specified substance(s):

Distillates (petroleum),
hydrotreated light NOAEL (Rat(Female, Male), Inhalation): >= 24 mg/m3 Inhalation
Experimental result, Key study
NOAEL (Rat(Female), Oral, 70 - 147 d): 750 mg/kg Oral Experimental result,
Key study

Distillates (petroleum),
hydrotreated heavy
naphthenic NOAEL (Rat(Female, Male), Inhalation): > 980 mg/m3 Inhalation
Experimental result, Key study
NOAEL (Rat(Female, Male), Dermal, 13 Weeks): >= 2,000 mg/kg Dermal
Experimental result, Key study



Propane	NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation Experimental result, Key study LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation Experimental result, Key study
Ethanol, 2-(2-butoxyethoxy)-	NOAEL (Rat(Female, Male), Oral, 90 d): 250 mg/kg Oral Experimental result, Key study NOAEL (Rat(Female, Male), Dermal, 13 Weeks): > 2,000 mg/kg Dermal Experimental result, Key study NOAEL (Rat(Female, Male), Inhalation, 90 - 120 d): 14 ppm(m) Inhalation Experimental result, Key study
Distillates (petroleum), hydrotreated heavy paraffinic	NOAEL (Rat(Female, Male), Inhalation): > 980 mg/m3 Inhalation Experimental result, Key study LOAEL (Mouse(Male), Dermal, 24 Months): 100 mg/kg Dermal Experimental result, Key study NOAEL (Rat(Female, Male), Dermal, 13 Weeks): >= 2,000 mg/kg Dermal Experimental result, Key study
Distillates, Petroleum, Hydrotreated Light Naphthenic	NOAEL (Rat(Female, Male), Inhalation): 220 mg/m3 Inhalation Experimental result, Key study NOAEL (Rabbit(Female, Male), Dermal): 1,000 mg/kg Dermal Experimental result, Key study
Distillates (petroleum), solvent-dewaxed heavy paraffinic	LOAEL (Rat(Male), Oral, 13 Weeks): 125 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Key study NOAEL (Rat(Female, Male), Inhalation): 50 - 150 mg/m3 Inhalation Experimental result, Supporting study NOAEL (Rat(Female, Male), Inhalation): > 980 mg/m3 Inhalation Experimental result, Key study NOAEL (Rat(Female, Male), Dermal, 13 Weeks): < 30 mg/kg Dermal Read-across from supporting substance (structural analogue or surrogate), Key study NOAEL (Rat, Inhalation): 500 mg/m3 Inhalation Experimental result, Supporting study
Distillates (petroleum), hydrotreated light paraffinic	NOAEL (Rat(Female, Male), Inhalation): 220 mg/m3 Inhalation Experimental result, Key study NOAEL (Rabbit(Female, Male), Dermal): 1,000 mg/kg Dermal Experimental result, Key study LOAEL (Mouse(Male), Dermal, 24 Months): 100 mg/kg Dermal Experimental result, Key study
Distillates (petroleum), solvent-dewaxed light paraffinic	NOAEL (Rat(Female, Male), Inhalation): > 980 mg/m3 Inhalation Experimental result, Key study LOAEL (Rat(Male), Oral, 13 Weeks): 125 mg/kg Oral Read-across from supporting substance (structural analogue or surrogate), Key study NOAEL (Rat(Female, Male), Dermal, 13 Weeks): >= 2,000 mg/kg Dermal Experimental result, Key study

Skin Corrosion/Irritation

Product:

No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated light

in vivo (Rabbit): Not irritant Experimental result, Key study

Distillates (petroleum), hydrotreated heavy naphthenic

in vivo (Rabbit): Not irritant Experimental result, Key study

Ethanol, 2-(2-butoxyethoxy)-

in vivo (Rabbit): Not irritant Experimental result, Supporting study



Distillates (petroleum), hydrotreated heavy paraffinic	in vivo (Rabbit): Not irritant	Experimental result, Key study
Distillates, Petroleum, Hydrotreated Light Naphthenic	in vivo (Rabbit): Not irritant	Experimental result, Key study
Distillates (petroleum), solvent-dewaxed heavy paraffinic	in vivo (Rabbit): Not irritant	Experimental result, Key study
Distillates (petroleum), hydrotreated light paraffinic	in vivo (Rabbit): Not irritant	Experimental result, Key study
Distillates (petroleum), solvent-dewaxed light paraffinic	in vivo (Rabbit): Not irritant	Experimental result, Key study

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated light	Rabbit, 24 - 72 hrs: Not irritating
Distillates (petroleum), hydrotreated heavy naphthenic	Rabbit, 48 hrs: Not irritating
Ethanol, 2-(2-butoxyethoxy)-	Rabbit, 24 - 72 hrs: Highly irritating
Distillates (petroleum), hydrotreated heavy paraffinic	Rabbit, 48 hrs: Not irritating
Distillates, Petroleum, Hydrotreated Light Naphthenic	Rabbit, 48 hrs: Not irritating
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Rabbit, 48 hrs: Not irritating
Distillates (petroleum), hydrotreated light paraffinic	Rabbit, 48 hrs: Not irritating
Distillates (petroleum), solvent-dewaxed light paraffinic	Rabbit, 48 hrs: Not irritating



Respiratory or Skin Sensitization

Product: No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated light	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Distillates (petroleum), hydrotreated heavy naphthenic	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Ethanol, 2-(2-butoxyethoxy)-	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Proprietary	Not sensitising
Distillates (petroleum), hydrotreated heavy paraffinic	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Distillates, Petroleum, Hydrotreated Light Naphthenic	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Distillates (petroleum), hydrotreated light paraffinic	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Distillates (petroleum), solvent-dewaxed light paraffinic	Skin sensitization:, in vivo (Guinea pig): Non sensitising

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.



Aspiration Hazard

Product: No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated light May be fatal if swallowed and enters airways.

Distillates, Petroleum, Hydrotreated Light May be fatal if swallowed and enters airways.

Naphthenic

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated heavy naphthenic LL 50 (Pimephales promelas, 96 h): > 100 mg/l Experimental result, Key study

Propane LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study

Ethanol, 2-(2-butoxyethoxy)- LC 50 (Lepomis macrochirus, 96 h): 1,300 mg/l Experimental result, Key study
LC 50 (Pimephales promelas, 96 h): 2,400 mg/l Experimental result, Supporting study

Proprietary LC 50 (96 h): > 100 mg/l

Distillates (petroleum), hydrotreated heavy paraffinic LL 50 (Pimephales promelas, 96 h): > 100 mg/l Experimental result, Key study

Distillates, Petroleum, Hydrotreated Light Naphthenic LL 50 (Pimephales promelas, 96 h): > 100 mg/l Experimental result, Key study

Distillates (petroleum), solvent-dewaxed heavy paraffinic LL 50 (Pimephales promelas, 96 h): > 100 mg/l Experimental result, Key study

Distillates (petroleum), hydrotreated light paraffinic LL 50 (Pimephales promelas, 96 h): > 100 mg/l Experimental result, Key study

Distillates (petroleum), solvent-dewaxed light paraffinic LL 50 (Pimephales promelas, 96 h): > 100 mg/l Experimental result, Key study



Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated heavy naphthenic	EC 50 (Daphnia magna, 48 h): > 10,000 mg/l Experimental result, Key study NOAEL (Daphnia magna, 48 h): >= 10,000 mg/l Experimental result, Key study
Ethanol, 2-(2-butoxyethoxy)-	LC 50 (Daphnia magna, 48 h): +/- 1,743 mg/l QSAR QSAR, Supporting study
Proprietary	EC 50 (48 h): > 100 mg/l
Distillates (petroleum), hydrotreated heavy paraffinic	EC 50 (Daphnia magna, 48 h): > 10,000 mg/l Experimental result, Key study
Distillates, Petroleum, Hydrotreated Light Naphthenic	EC 50 (Daphnia magna, 48 h): > 10,000 mg/l Experimental result, Key study NOAEL (Daphnia magna, 48 h): >= 10,000 mg/l Experimental result, Key study
Distillates (petroleum), solvent-dewaxed heavy paraffinic	EC 50 (Daphnia magna, 48 h): > 10,000 mg/l Experimental result, Key study
Distillates (petroleum), hydrotreated light paraffinic	EC 50 (Daphnia magna, 48 h): > 10,000 mg/l Experimental result, Key study
Distillates (petroleum), solvent-dewaxed light paraffinic	EC 50 (Daphnia magna, 48 h): > 10,000 mg/l Experimental result, Key study

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated light	NOAEL (Oncorhynchus mykiss): 0.098 mg/l QSAR QSAR, Key study
Distillates (petroleum), hydrotreated heavy naphthenic	NOAEL (Oncorhynchus mykiss): >= 1,000 mg/l QSAR QSAR, Supporting study
Distillates (petroleum), hydrotreated heavy paraffinic	NOAEL (Oncorhynchus mykiss): >= 1,000 mg/l QSAR QSAR, Supporting study
Distillates, Petroleum, Hydrotreated Light Naphthenic	NOAEL (Oncorhynchus mykiss): >= 1,000 mg/l QSAR QSAR, Supporting study
Distillates (petroleum), solvent-dewaxed heavy paraffinic	NOAEL (Oncorhynchus mykiss): >= 1,000 mg/l QSAR QSAR, Supporting study



Distillates (petroleum), hydrotreated light paraffinic NOAEL (Oncorhynchus mykiss): \geq 1,000 mg/l QSAR QSAR, Supporting study

Distillates (petroleum), solvent-dewaxed light paraffinic NOAEL (Oncorhynchus mykiss): \geq 1,000 mg/l QSAR QSAR, Supporting study

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated heavy naphthenic NOAEL (Daphnia magna): 10 mg/l Experimental result, Key study

Distillates (petroleum), hydrotreated heavy paraffinic NOAEL (Daphnia magna): \geq 1,000 mg/l Experimental result, Supporting study

Distillates, Petroleum, Hydrotreated Light Naphthenic NOAEL (Daphnia magna): 10 mg/l Experimental result, Key study

Distillates (petroleum), solvent-dewaxed heavy paraffinic EC 50 (Daphnia magna): $>$ 1,000 mg/l Experimental result, Supporting study

Distillates (petroleum), hydrotreated light paraffinic NOAEL (Daphnia magna): 10 mg/l Experimental result, Key study

Distillates (petroleum), solvent-dewaxed light paraffinic NOAEL (Daphnia magna): 10 mg/l Experimental result, Key study

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s):

Proprietary EC 50 (72 h): $>$ 100 mg/l
NOEC (72 h): $>$ 100 mg/l

Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s):

Distillates (petroleum), hydrotreated light 61 % Detected in water. Experimental result, Supporting study

Distillates (petroleum), hydrotreated heavy naphthenic 31 % (28 d) Detected in water. Read-across based on grouping of substances (category approach), Supporting study
2 - 4 % (28 d) Detected in water. Experimental result, Supporting study

Propane 100 % (385.5 h) Detected in water. Experimental result, Key study
50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study



Ethanol, 2-(2-butoxyethoxy)-	85 % (28 d) Detected in water. Experimental result, Key study
Proprietary	55 % (28 d) Not readily degradable.
Distillates (petroleum), hydrotreated heavy paraffinic	2 - 8 % (28 d) Detected in water. Experimental result, Supporting study 31 % (28 d) Detected in water. Experimental result, Supporting study
Distillates, Petroleum, Hydrotreated Light Naphthenic	31 % (28 d) Detected in water. Experimental result, Supporting study 2 - 8 % (28 d) Detected in water. Experimental result, Supporting study
Distillates (petroleum), solvent-dewaxed heavy paraffinic	2 - 8 % (28 d) Detected in water. Experimental result, Supporting study 31 % (28 d) Detected in water. Read-across based on grouping of substances (category approach), Supporting study
Distillates (petroleum), hydrotreated light paraffinic	31 % (28 d) Detected in water. Experimental result, Supporting study 2 - 8 % (28 d) Detected in water. Experimental result, Supporting study
Distillates (petroleum), solvent-dewaxed light paraffinic	31 % (28 d) Detected in water. Experimental result, Supporting study 2 - 8 % (28 d) Detected in water. Experimental result, Supporting study

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Specified substance(s):

Proprietary Log Kow: > 9.4 (Measured)

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Distillates (petroleum), hydrotreated light	No data available.
Distillates (petroleum), hydrotreated heavy naphthenic	No data available.
Propane	No data available.
Ethanol, 2-(2-butoxyethoxy)-	No data available.
Proprietary	No data available.
Distillates (petroleum), hydrotreated heavy paraffinic	No data available.
Distillates, Petroleum, Hydrotreated Light Naphthenic	No data available.



Distillates (petroleum),
solvent-dewaxed heavy
paraffinic No data available.
Distillates (petroleum),
hydrotreated light paraffinic No data available.
Distillates (petroleum),
solvent-dewaxed light
paraffinic No data available.

Other adverse effects: No data available.

13. Disposal considerations

Disposal instructions: Discharge, treatment, or disposal may be subject to national, state, or local laws.

Contaminated Packaging: No data available.

14. Transport information

DOT

UN Number: UN 1950
UN Proper Shipping Name: Aerosols, flammable
Transport Hazard Class(es)
Class: 2.1
Label(s): –
Packing Group: II
Marine Pollutant: No

Environmental Hazards: No
Marine Pollutant: No

Special precautions for user: Not regulated.

IMDG

UN Number: UN 1950
UN Proper Shipping Name: Aerosols, flammable
Transport Hazard Class(es)
Class: 2
Label(s): –
EmS No.: –

Packing Group: –

Environmental Hazards: No
Marine Pollutant: No

Special precautions for user: Not regulated.

IATA

UN Number: UN 1950
Proper Shipping Name: Aerosols, flammable
Transport Hazard Class(es):
Class: 2.1
Label(s): –

Packing Group: –

Environmental Hazards: No
Marine Pollutant: No

Special precautions for user: Not regulated.



15. Regulatory information

US Federal Regulations

Restrictions on use: Not known.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

<u>Chemical Identity</u>	<u>Reportable quantity</u>
Propane	lbs. 100

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

- Fire Hazard
- Immediate (Acute) Health Hazards
- Flammable aerosol
- Aspiration Hazard

SARA 302 Extremely Hazardous Substance

<u>Chemical Identity</u>	<u>Reportable quantity</u>	<u>Threshold Planning Quantity</u>
Distillates (petroleum), hydrotreated light		

SARA 304 Emergency Release Notification

<u>Chemical Identity</u>	<u>Reportable quantity</u>
Distillates (petroleum), hydrotreated light	
Propane	lbs. 100
Ethanol, 2-(2-butoxyethoxy)-	

SARA 311/312 Hazardous Chemical

<u>Chemical Identity</u>	<u>Threshold Planning Quantity</u>
Distillates (petroleum), hydrotreated light	10000 lbs
Distillates (petroleum), hydrotreated heavy naphthenic	10000 lbs
Propane	10000 lbs
Ethanol, 2-(2-butoxyethoxy)-	10000 lbs
Proprietary	10000 lbs
Distillates (petroleum), hydrotreated heavy paraffinic	10000 lbs
Distillates, Petroleum, Hydrotreated Light Naphthenic	10000 lbs
Distillates (petroleum), solvent-dewaxed heavy paraffinic	10000 lbs
Distillates (petroleum), hydrotreated light paraffinic	10000 lbs
Distillates (petroleum), solvent-dewaxed light paraffinic	10000 lbs



SARA 313 (TRI Reporting)

<u>Chemical Identity</u>	<u>Reporting threshold for other users</u>	<u>Reporting threshold for manufacturing and processing</u>
Ethanol, 2-(2-butoxyethoxy)-	N230 lbs	N230 lbs.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):
Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

- Distillates (petroleum), hydrotreated light
- Distillates (petroleum), hydrotreated heavy naphthenic
- Propane
- Ethanol, 2-(2-butoxyethoxy)-
- Distillates (petroleum), hydrotreated heavy paraffinic
- Distillates, Petroleum, Hydrotreated Light Naphthenic
- Distillates (petroleum), solvent-dewaxed heavy paraffinic
- Distillates (petroleum), hydrotreated light paraffinic
- Distillates (petroleum), solvent-dewaxed light paraffinic

US. Massachusetts RTK - Substance List

Chemical Identity

- Distillates, Petroleum, Hydrotreated Light Naphthenic
- Distillates (petroleum), hydrotreated light paraffinic
- Distillates (petroleum), solvent-dewaxed light paraffinic

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

- Distillates (petroleum), hydrotreated light
- Distillates (petroleum), hydrotreated heavy naphthenic
- Propane
- Ethanol, 2-(2-butoxyethoxy)-

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

International regulations

Montreal protocol

Distillates (petroleum),
hydrotreated light

Stockholm convention

Distillates (petroleum),
hydrotreated light

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Rotterdam convention

Distillates (petroleum),
hydrotreated light

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Kyoto protocol



Inventory Status:

EINECS, ELINCS or NLP:	Not in compliance with the inventory.
Japan (ENCS) List:	Not in compliance with the inventory.
China Inv. Existing Chemical Substances:	Not in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI):	Not in compliance with the inventory.
Canada NDSL Inventory:	Not in compliance with the inventory.
Japan ISHL Listing:	Not in compliance with the inventory.
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.
Mexico INSQ:	Not in compliance with the inventory.
Ontario Inventory:	Not in compliance with the inventory.
Australia AICS:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	On or in compliance with the inventory
Philippines PICCS:	On or in compliance with the inventory
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory
US TSCA Inventory:	On or in compliance with the inventory

16. Other information, including date of preparation or last revision

Issue Date:	11/19/2019
Revision Information:	No data available.
Version #:	1.0
Further Information:	No data available.
Disclaimer:	This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.